

Monitoring Data Record

Project Title: R-2552B Clayton Bypass COE Action ID: 200220745
 Stream Name: Site 5 DWQ Number: 041760
 City, County and other Location Information: US 70 Clayton Bypass from I-40 to US 70
Station 82+60 to 85+50 -L-
 Date Construction Completed: 4/21/06 Monitoring Year: (4) of 5
 Ecoregion: _____ 8 digit HUC unit 03020201
 USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 410' Urban or Rural: Rural Watershed Size: _____
 Monitoring DATA collected by: M. Green and J. Young Date: 7/19/10
 Applicant Information:

Name: NCDOT Roadside Environmental Unit
 Address: 1425 Rock Quarry Road Raleigh, NC 27610
 Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
 Address: _____
 Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) ~~2~~ ~~3~~

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: (200220745) NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5-year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

(041760) Riparian vegetation reestablishment shall include a minimum of at least 2 native hardwood tree species planted at a density sufficient to provide 320 trees per acre at maturity. In addition, within one year proof shall be submitted that the riparian buffer has been restored and an annual report will be submitted for a period of 5 years showing that the trees and vegetation have survived and that the diffuse flow through the riparian buffer has been maintained. Failure to achieve the 320 trees per acre after 5 years will require reporting by DOT to DWQ. The report shall provide appropriate remedial actions to be implemented. Approval of the plan by the DWQ is required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site:

A total of 8 photos were taken from 4 photo point locations.

Dates reference photos have been taken at this site: 3/14/07, 7/16/07, 3/17/08, 6/19/08,
1/29/09, 6/17/09, 1/7/10, 7/19/10

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: A site map is included with this report
showing the photo point locations.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2

Attach plan sheet indicating reference photos.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete

Plot #	Red Oak	River Birch	Yellow Poplar	White Oak	Sycamore	Total (4 year)	Total (at planting)
1	3	12	1	2	21	39	45
Average Density (Trees/Acre)							589

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The stream relocation is stabilized for the Year 4 Summer evaluation. The minor bank scouring on the right bank at Station 11+10 - S- noted during the last evaluation has re-vegetated and is stabilized. The bank erosion at the inlet end of the box culvert around the right wing wall has been repaired (see photo). NCDOT will continue to monitor channel stability at this stream relocation.

Date	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Section 4. DEBIT LEDGER

The entire Clayton Bypass stream mitigation site was used for the R-2552B project to compensate for unavoidable stream impacts

R-2552B Clayton Bypass



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

R-2552B Clayton Bypass



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)

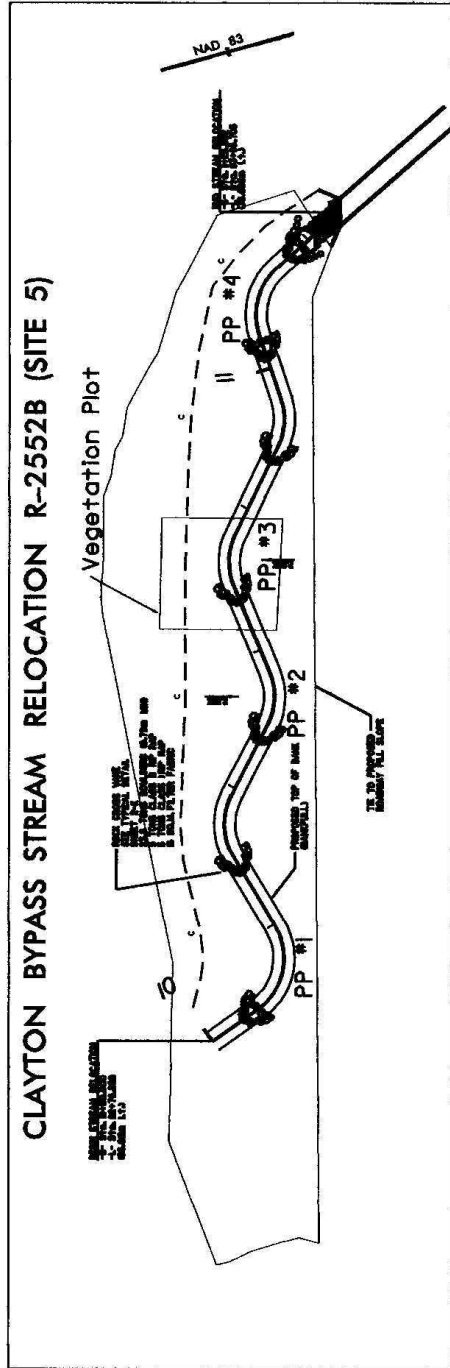




Repaired area at inlet side of box culvert
at Sta. 11+20 - S -



Overview of Site

Year 4 Summer – July 2010

[illegible]

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						3-1